



esri



AGIC 2010





What's New in ArcGIS Desktop 10

Bryan Franey
David Bryson



Agenda

- **Mapping & Visualization**
- **Manage & Create data easily**
- **Editing**
- **Improved Analysis**
- **New Ways to Share**

ArcGIS 10

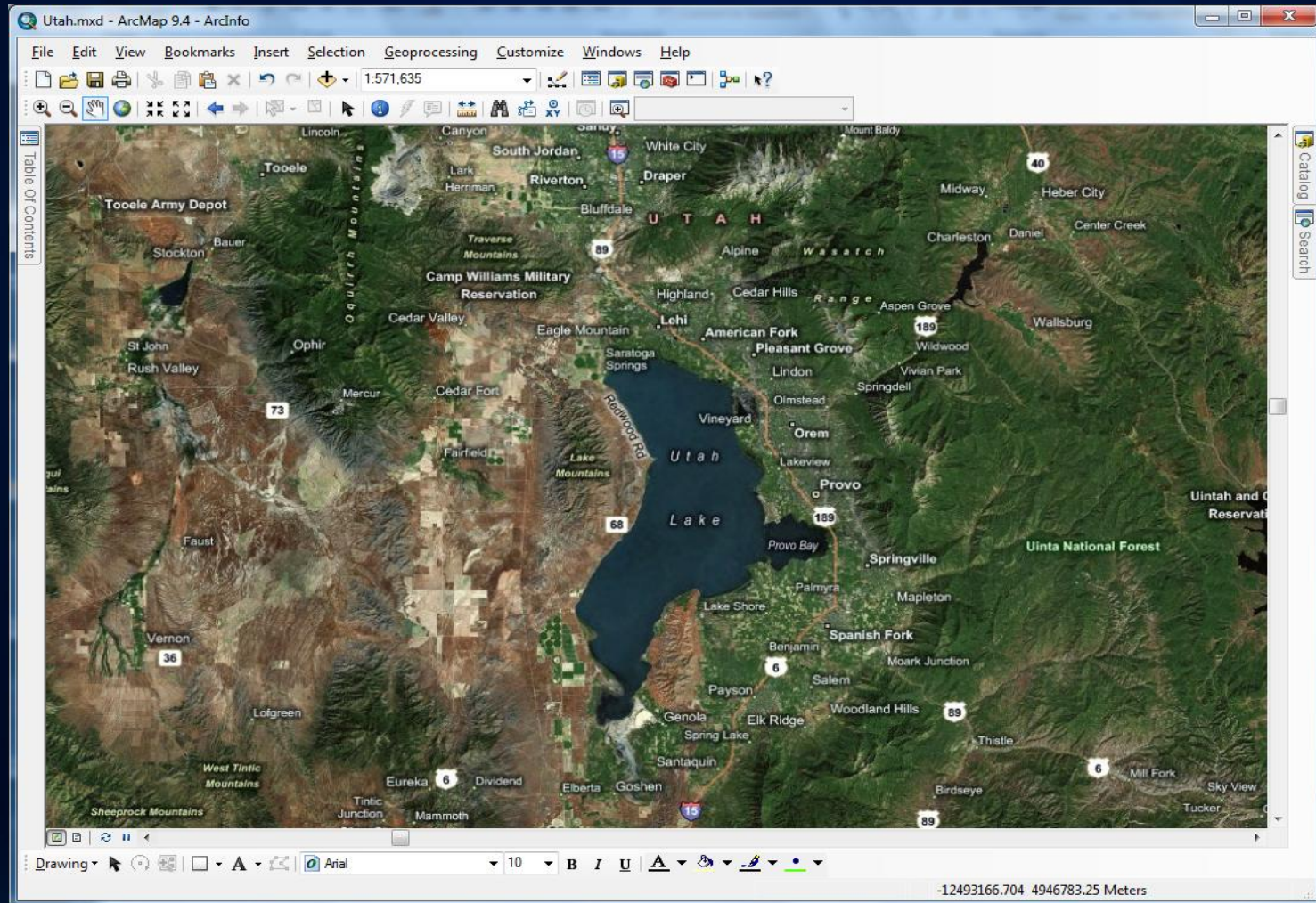
A Complete System for Geographic Information

Easier
More Powerful
and Everywhere



Making GIS Available to Everyone

Being Productive



It's all about the Map

User Interface Demonstration



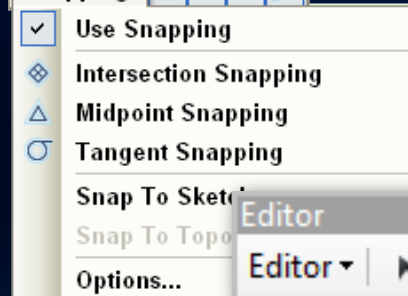
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Editing Experience

A Simple & More Intuitive Approach

- Layer-based editing
- Efficient feature construction
- Simple dataset creation (Packing)
- Simplified snapping environment
- Productivity improvements
- Improved attribute management



Editor

Editor ▾



Attributes

Tree View:

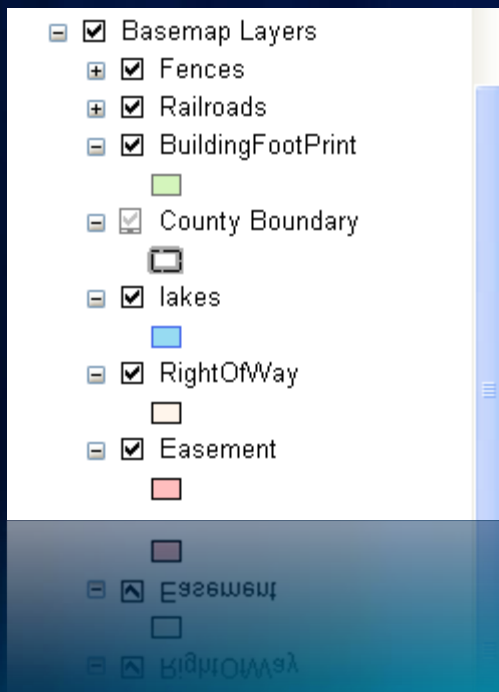
- Meter Setting
- Service Pipe
- Distribution Main
 - 1885
 - CP System
 - Crossing Inspection
 - Drip
 - Electric Survey
 - Gas Pipe Casing
 - 31
 - Leak Report
 - Pipe Exposure
 - 1886

Attribute	Value
Enabled	True
Creation User	Thomas Ward
Date Created	4/4/1995
Date Modified	4/25/2003
Last User	jan
Nominal Diameter	6"
Pipe Type	Non-Pinchable
System Operating Pres	60
Wall Thickness	1/2
Manufacturer	Thrall Distribution
Work Order ID	WO909080
Material	Plastic

Text (Length = 10)
Null values allowed

Authoring Maps for Editing

- Author map layers
 - Basemaps
 - Set Field properties
- Author feature templates



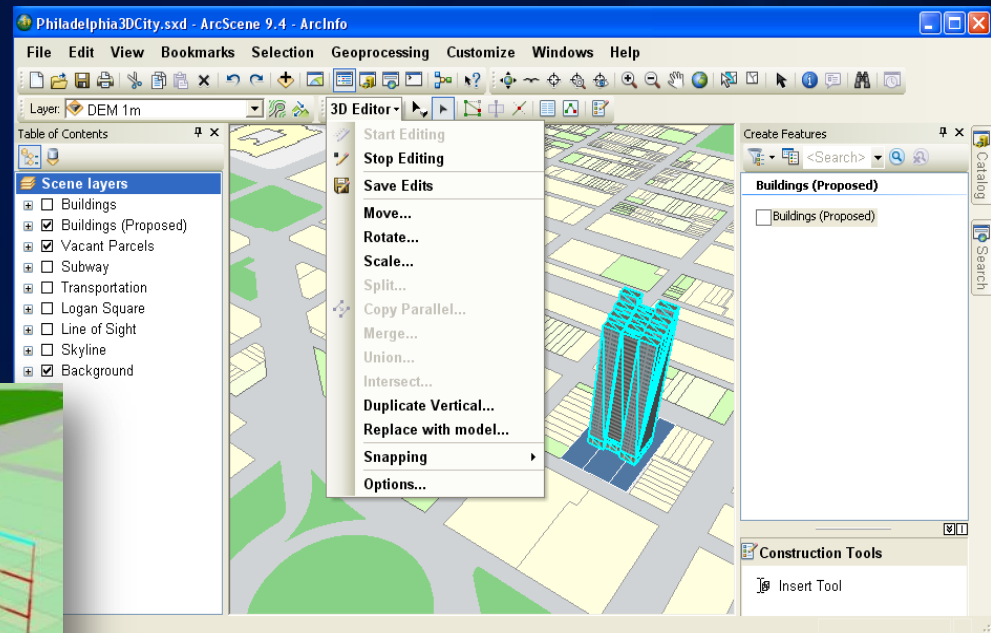
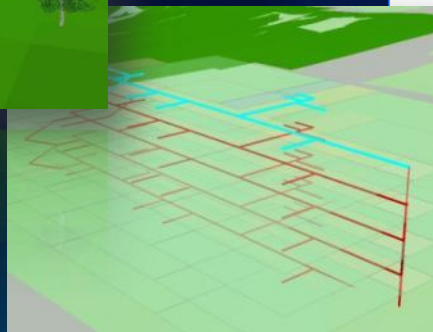
The 'Template Properties' dialog box is shown. It has a 'General' tab. The 'Name' field is 'Meters - Large Flag'. The 'Description' field is empty. The 'Tags' field is 'Point'. The 'Default Tool' is 'Point'. The 'Target Layer' is 'Point'. The 'Drawing Symbol' is 'Point at end of line'. Below the 'View' button is a table with the following data:

Facility Identifier	<Null>
Large Meter Flag	False
Install Date	<Null>
Rotation	0
Account Identifier	<Null>
Location Identifier	<Null>
Critical Customer	True
Enabled	True

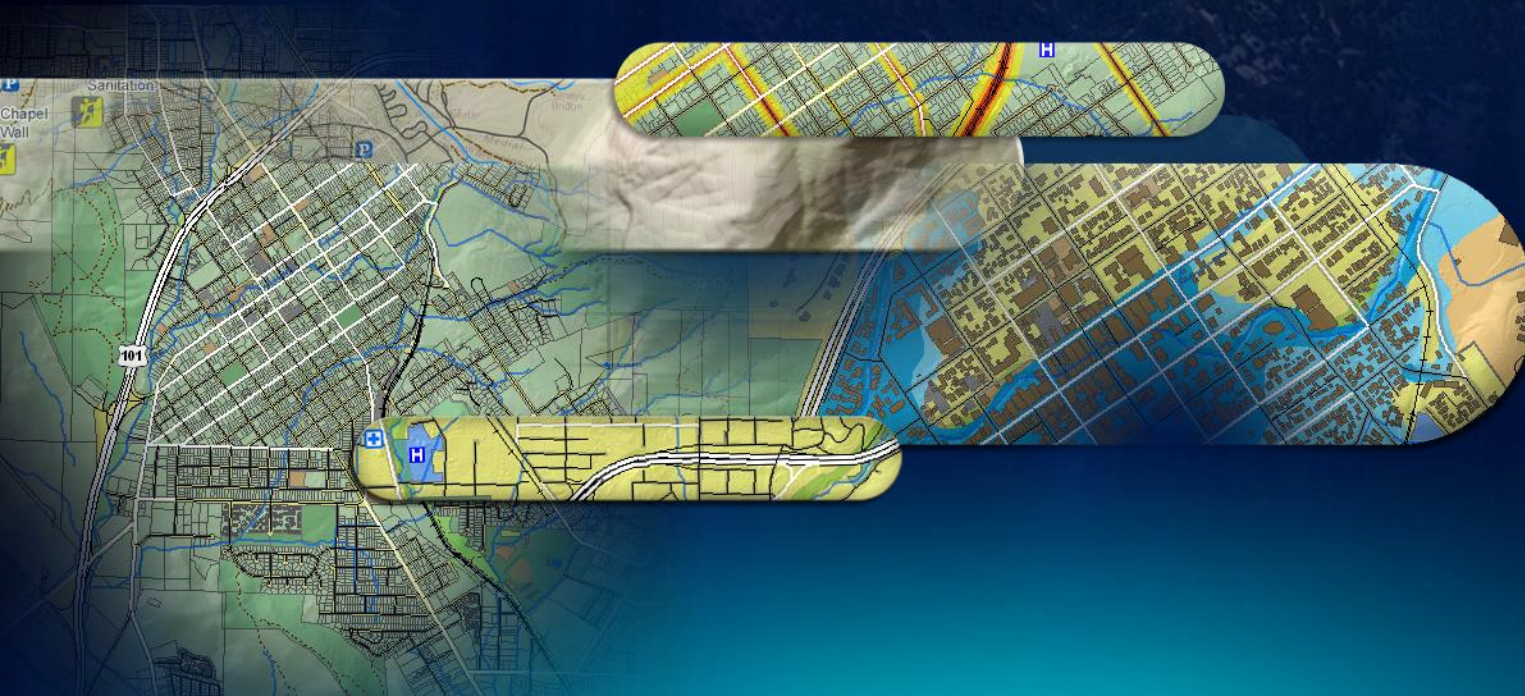
At the bottom of the dialog are 'OK', 'Cancel', and 'Apply' buttons.

Editing in 3D

- Same editing experience as with 2D features
 - Define what you want to add
 - Efficient attribute update
- 3D-specific tools
 - Model placement
 - Vertical line support



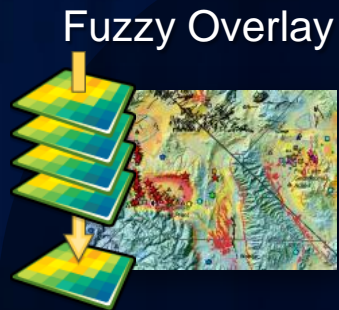
Editing Demonstration



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- New Ways to Share

10 Improves Spatial Analysis



Ecological Sampling



Location/Allocation

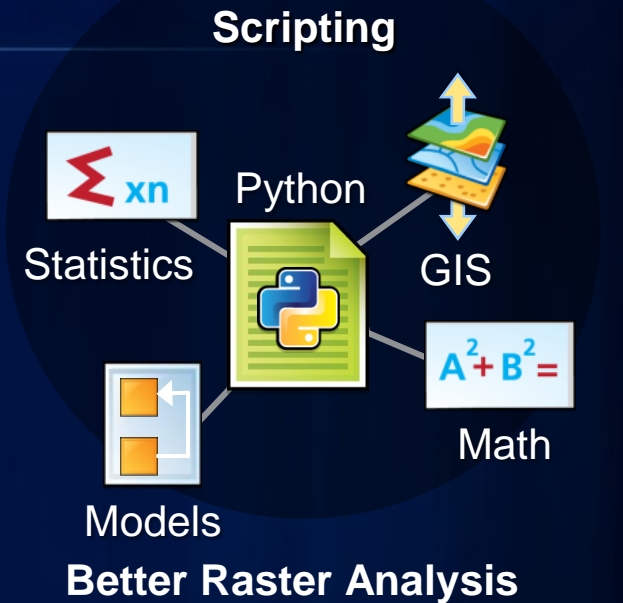


Time Routing



Model Complex Relationships

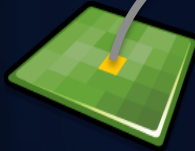
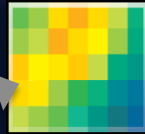
Time Visualization



Answer Questions and Solve Problems

- The power of ArcGIS
- 130+ New Geoprocessing Tools
 - 750+ Tools in ArcGIS

Dynamic
Processing

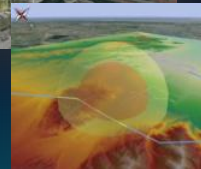
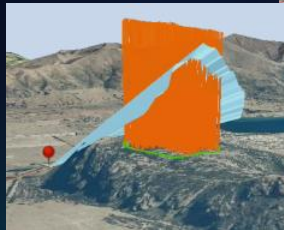


On-the-Fly
Analysis

Location /
Allocation

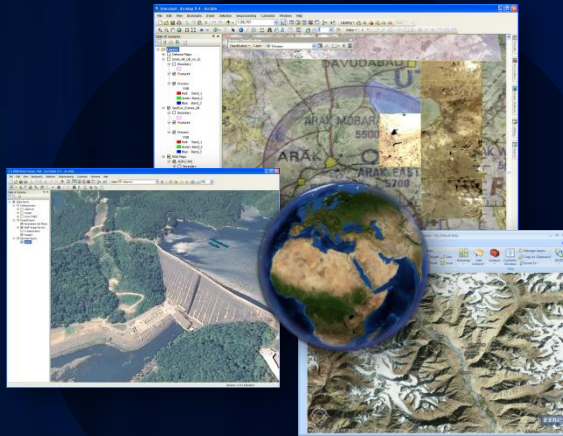


3D Analysis

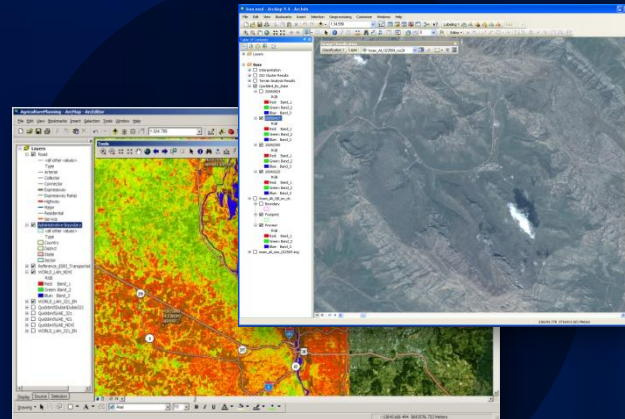


ArcGIS 10 - A Great Imagery Platform

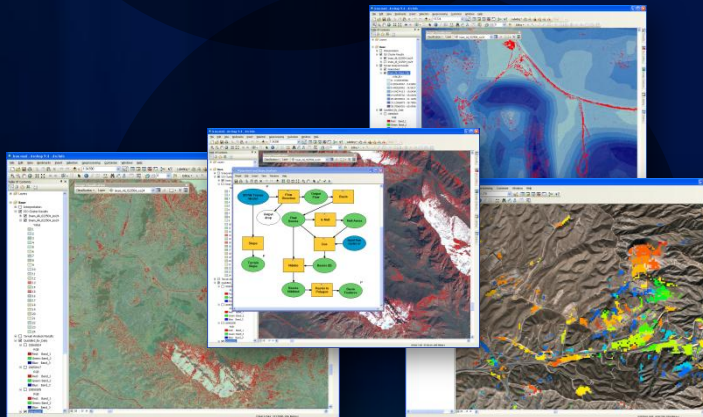
Using Base Maps



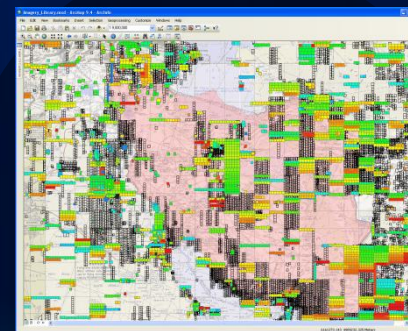
Analyzing Change



Performing Analysis



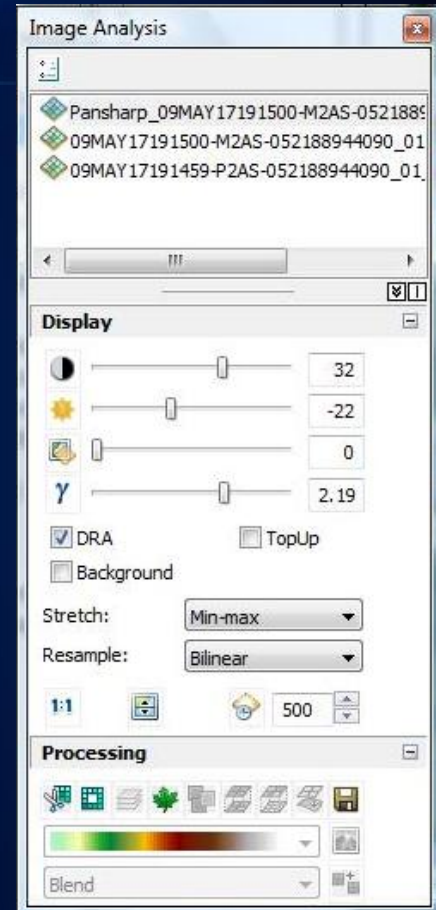
Managing Information



*Evolving GIS Use...
...Enabling Better Decisions*

Imagery in ArcGIS Desktop – Summary

- **Image Access**
 - Access to more types, better performance
- **Image Analysis Window**
 - New window in ArcMap provides quick access to image functionality
 - Optimized Display – Fast Pan/Zoom
- **New Geodatabase raster type: Mosaic Dataset**
 - Author and build in ArcGIS
 - Combines the best features of Raster catalogs and Image Server



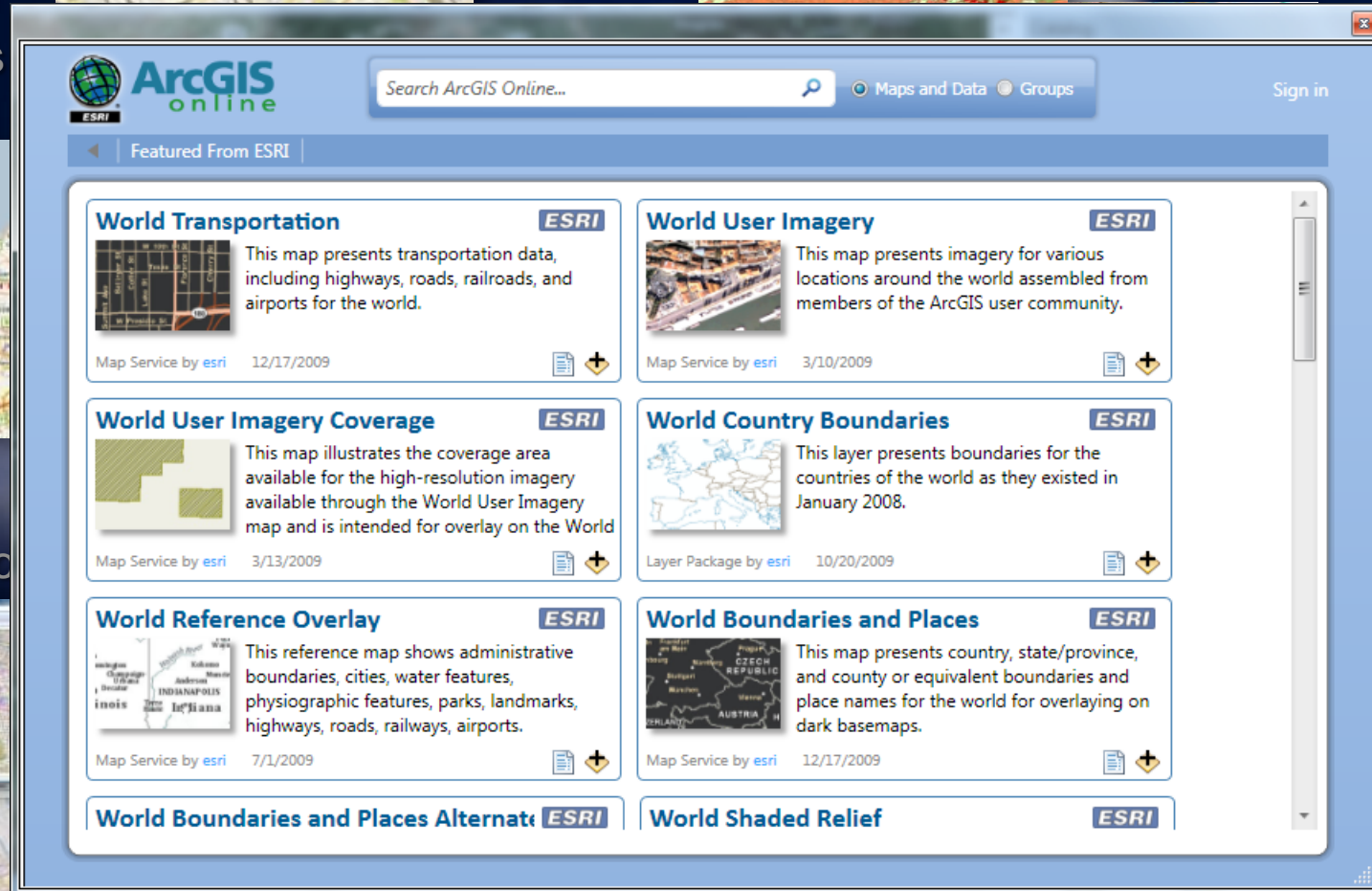
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- Improved Analysis
- **New Ways to Share**







ArcGIS 10 Comes with Content

Demographic & Thematic

Streets



The screenshot shows the ArcGIS Online homepage with a blue header. The header includes the ArcGIS Online logo, a search bar with the text "Search ArcGIS Online...", and navigation links for "Maps and Data" and "Groups". A "Sign in" link is located on the right. Below the header, a "Featured From ESRI" section displays a grid of map services. Each service includes a thumbnail image, a title, a description, and a "Map Service by esri" link with a date.

World Transportation	World User Imagery
 <p>This map presents transportation data, including highways, roads, railroads, and airports for the world.</p> <p>Map Service by esri 12/17/2009</p>	 <p>This map presents imagery for various locations around the world assembled from members of the ArcGIS user community.</p> <p>Map Service by esri 3/10/2009</p>
World User Imagery Coverage	World Country Boundaries
 <p>This map illustrates the coverage area available for the high-resolution imagery available through the World User Imagery map and is intended for overlay on the World</p> <p>Map Service by esri 3/13/2009</p>	 <p>This layer presents boundaries for the countries of the world as they existed in January 2008.</p> <p>Layer Package by esri 10/20/2009</p>
World Reference Overlay	World Boundaries and Places
 <p>This reference map shows administrative boundaries, cities, water features, physiographic features, parks, landmarks, highways, roads, railways, airports.</p> <p>Map Service by esri 7/1/2009</p>	 <p>This map presents country, state/province, and county or equivalent boundaries and place names for the world for overlaying on dark basemaps.</p> <p>Map Service by esri 12/17/2009</p>
World Boundaries and Places Alternat	World Shaded Relief

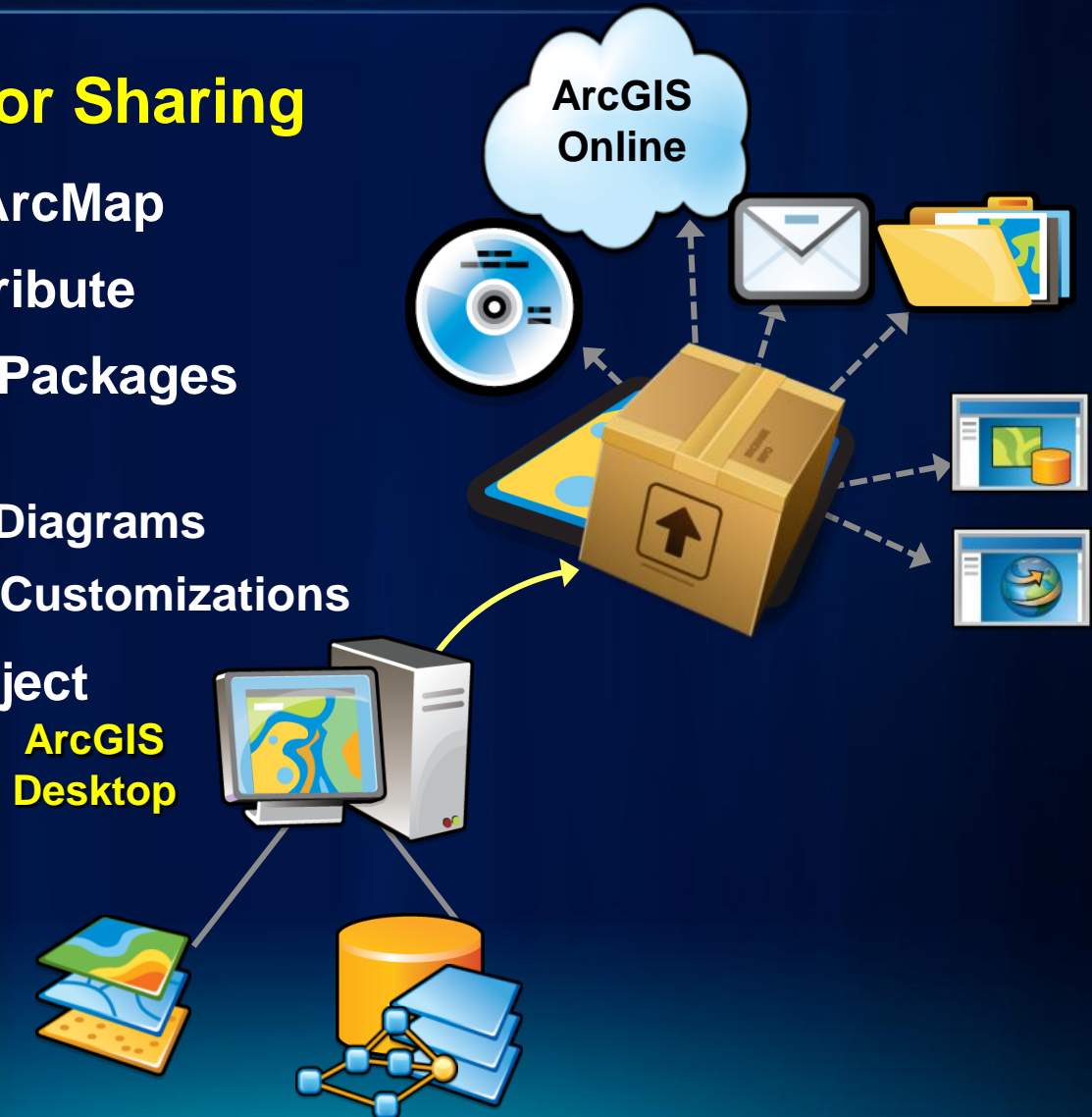
Topo

imagery

Sharing Your Work - Packages

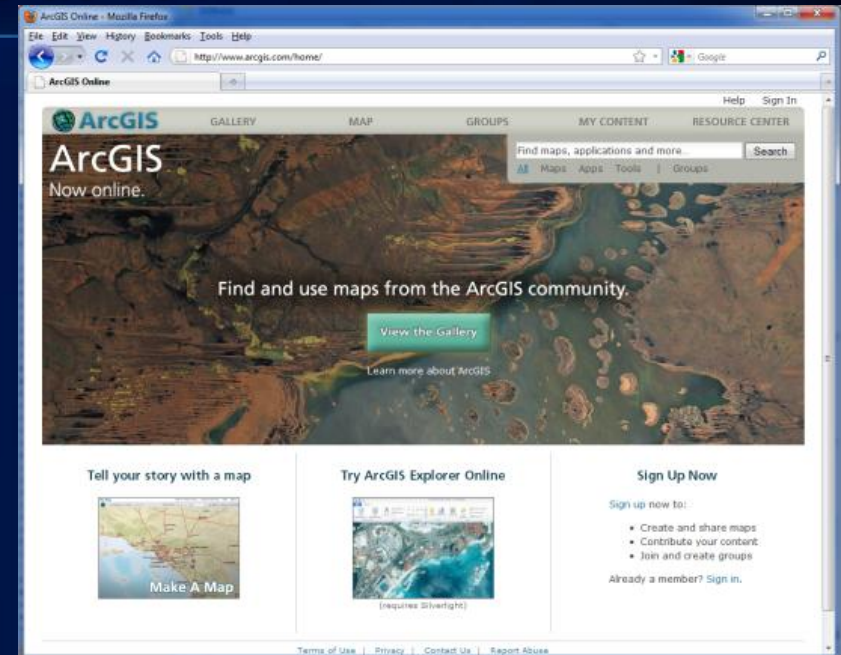
A New Method for Sharing

- Easy to create in ArcMap
- Many ways to distribute
 - Layers & Data
 - Maps, Globes, & Diagrams
 - Tools, Models, & Customizations
- Template for a project
- Peer to Peer



What Can You Share Online at 10?

- **Layers**
 - **Layer packages (.lpk)**
 - **Layer files (.lyr)**
 - **Map and globe services**
- **Maps**
 - **Map packages (.mpk)**
 - **Desktop maps (.mxd, .3dd, .sxd)**
- **Tools**
 - **Services (geocoding, network analysis)**
- **Web Maps**
 - **Mashup Your Own Data with Online Data and Services**
 - **Share Your Custom Web Map**



ArcGIS Community

- Resources
- Training
- Books
- Partners



Resource Center Demonstration

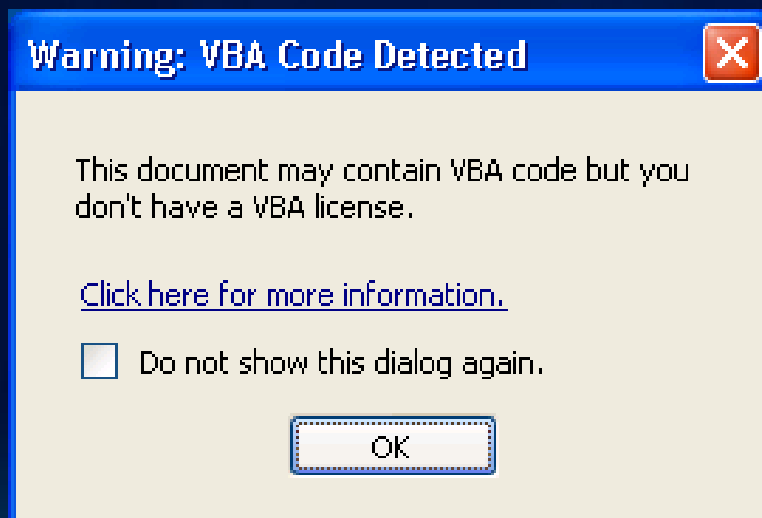
FAQs for Migrating to 10

New Field Calculator

- **How do I migrate to the new field calculator?**
 - Python is recommended scripting language
 - Use VBScript if you have VBA or VBScript experience
- **Will my old field calculations still work?**
 - .cal files from previous versions may require minimal modifications
 - VBA code that uses ArcObjects will need to be modified

ArcGIS 10 is the last release to support VBA

- Where is VBA?
 - Separate installation
 - Separate License file
- Why do I get a “VBA Code Detected” Warning when I open a MXD?



More on ArcGIS Desktop 10

- [FGDC Metadata Style Patch](#)
- [ArcGIS 10 Desktop File Menu Performance Patch](#)
- [ArcGIS Service Pack](#)

Platform

- **Setup**
 - Available now for Desktop and SDK
 - Remove previous versions
- **Operating System**
 - Windows XP, Vista and Windows 7
 - No longer supporting Windows 2000 in 10
- **Scripting**
 - Python (2.6) part of ArcGIS Desktop
 - VBA available as separate install if needed
- **Software Developer Kit (SDK)**
 - Visual Studio 2008
 - No Visual Basic 6 support
- **Other**
 - Crystal report wizard
 - Internet Explorer 6

Deployment

- **One Desktop Install program**
 - License controls the product level
 - Secure download of setups
- **Improved Setups**
 - Desktop typically installs 40% faster
 - Service Packs can be uninstalled
- **Licensing and Copy Protection**
 - No hardware key
 - Administration
 - License Borrowing
- **Non English versions of ArcGIS Desktop**
 - French, German, Spanish, Chinese and Japanese



Thanks

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